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NOTICE OF ALLOWANCE AND FEE(S) DUE

29683

7590

10/17/2008

HARRINGTON & SMITH, PC 4 RESEARCH DRIVE, Suite 202 SHELTON, CT 06484-6212 EXAMINER

NGUYEN, HAI V

ART UNIT PAPER NUMBER

2618

DATE MAILED: 10/17/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/561,080	12/18/2006	Janne J. Kallio	879A.0058.U1(US)	6061	

TITLE OF INVENTION: METHOD AND ARRANGEMENTS FOR WIRELESS COMMUNICATION BETWEEN A VEHICLE AND A TERRESTRIAL

COMMUNICATION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/20/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

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			[(Depositor's name)
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								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTOI	RNEY DOCKET NO.	CONFIRMATION NO.
10/561,080	12/18/2006		Janne J. Kallio			879	A.0058.U1(US)	6061
TILE OF INVENTION COMMUNICATION SY		ANGEMENTS FOR WI	RELESS COMMUNIC	CATI	ON BETWEEN A	VEH	ICLE AND A TERRE	STRIAL
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	JE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	_	\$0		\$1810	01/20/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
NGUYEN	N, HAI V	2618	455-011100					
. Change of corresponde CFR 1.363). Change of corresponderss form PTO/SE "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.	(1) the names of up or agents OR, alterr (2) the name of a si registered attorney 2 registered patent a	rinting on the patent front page, list names of up to 3 registered patent attorneys s OR, alternatively, name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is on name will be printed.						
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (Cl	e pat an a	ent. If an assigned ssignment. and STATE OR CO	DUNT	RY)	cument has been filed for
a. The following fee(s): Issue Fee Publication Fee (N Advance Order - #	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 							
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29683 75	590 10/17/2008		EXAMINER		
HARRINGTON	& SMITH, PC	NGUYEN, HAI V			
4 RESEARCH DR		ART UNIT	PAPER NUMBER		
SHELTON, CT 06	484-6212	2618			
		DATE MAILED: 10/17/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/561,080	KALLIO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	HAI V. NGUYEN	2618	
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPLY of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due course	
1. This communication is responsive to the communication re	ecived on 07 July 2008.		
2. X The allowed claim(s) is/are 1-3, 5-46 that are renumbered	<u>as 1-45 are allowed</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicati	on No	m the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent APPLICATION (PTO-152) which give	MENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTICE	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	, , ,		
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1			of
each sheet. Replacement sheet(s) should be labeled as such in t			.
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview 5 Paper No 7. ☑ Examiner's	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance	ı

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Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's agent, Mr. John A. Garrity, registration # 60,470 on 07 October 2008.

The application has been amended as follows:

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Listing of Claims:

1. (Currently Amended) A method comprising:

establishing a satellite connection via a satellite when <u>an</u> information transfer between a first network unit and a second network unit is required[[,]];

releasing to a released state the satellite connection when the information transfer between the first network unit and the second network unit is not required[[,]]; and

emulating, without the information transfer between the first network unit and the second network unit, signalling of the second network unit to the first network unit during the released state of the satellite connection[[,]].

- 2. (Currently Amended)—A— <u>The</u> method according to claim 1, wherein said signalling is LAPD link and Abis signalling.
- 3. (Currently Amended)—A— <u>The</u> method according to claim 1, wherein said emulating signalling of the second network unit comprises transferring state messages with the first network unit.
- 4. (Cancelled)
- 5. (Currently Amended)—A— <u>The</u> method according to claim 2, wherein capacity is reserved dynamically for an Abis link during an on-state of the satellite connection, the capacity being reserved based on a data transfer requirement.

- 6. (Currently Amended)—A— The method according to claim 1, comprising transferring Internet Protocol (IP) data between the first network unit and Internet via the satellite, where communication between the first network unit and the second network unit is prioritized higher in the satellite connection than the IP data transfer between the first network unit and the Internet.
- 7. (Currently Amended)—A— <u>The</u> method according to claim 1, wherein the information transfer between the first network unit and the second network unit is transferred as Internet Protocol (IP) packet data.
- 8. (Currently Amended)—A— <u>The</u> method according to claim 1, wherein the first network unit is located in an aircraft, and the method further comprises receiving flight status information from avionics of the aircraft for controlling the first network unit.
- 9. (Currently Amended)—A— <u>The</u> method according to claim 8, wherein on the basis of the received flight status information communications between the first network unit and mobile stations inside the aircraft are barred while keeping mobile stations camped to the first network unit.
- 10. (Currently Amended)—— The communication method according to claim 8, wherein the flight status information comprises at least one of the following information: flight altitude, position and heading, doors open/closed, activate/deactivate mobile communications.
- 11. (Currently Amended) A The method according to claim 1, the method comprising: receiving communication information on another satellite and another second network unit[[,]];

establishing communications between the first network unit and the other second network unit via the other satellite on the basis of the received communication information[[,]]; and

releasing the communication information between the first network unit and the second network unit via the satellite.

- 12. (Currently Amended)—A— The method according to claim 1, that wherein the information transfer is compliant with at least one of the following communication specifications: GSM (Global System for Mobile communications), PCN (Personal Communication Network), PCS (Personal Communication System), HSCSD (High Speed Circuit Switched Data), GPRS (General Packet Radio Service), EDGE (Enhanced Data rates for GSM Evolution), CDMA (Code Division Multiple Access), WCDMA (Wide band CDMA), Bluetooth, UMTS (Universal Mobile Telecommunications System), Teldesic, Iridium, Inmarsat and WLAN (Wireless Local Area Network).

 13. (Currently Amended)—A— The method according to claim 1, wherein a wireless connection between a mobile terminal and the first network device unit is established by a wireless network.
- 14. (Currently Amended) A communication arrangement comprising:

a first circuit configured to establish a satellite connection via a satellite as a response to a situation in which <u>an</u> information transfer between a first network unit and a second network unit is required[[,]];

a second circuit configured to release to a released state the satellite connection as a response to a situation in which <u>the</u> information transfer between the first network unit and the second network unit is not required[[,]]; and

a third circuit configured to emulate, without the information transfer between the first network unit and the second network unit, signalling of the second network unit to the first network unit during the released state of the satellite connection.

- 15. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 14, wherein said signalling is LAPD link and Abis signalling.
- 16. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 14, wherein said circuit configured to emulate signalling of the second network unit comprises a circuit configured to transfer state messages with the first network unit.
- 17. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 14, wherein said circuit configure to emulate signalling of the second network unit comprises a circuit configured to transfer state messages with a base station controller.
- 18. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 15, wherein said circuit configured to emulate signaling is arranged to reserve capacity dynamically for an Abis link during an on-state of the satellite connection, the capacity being reserved, based on a data transfer requirement.
- 19. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 14, comprising a fourth circuit configured to transfer Internet Protocol (IP) data between the first network unit and Internet, where communication between the first network unit and the second network unit is prioritized higher in the satellite connection than the IP data

transfer between the first network unit and the Internet.

- 20. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 14, comprising a fifth circuit configured to transfer data between the first network unit and the second network unit as Internet Protocol (IP) packet data.
- 21. (Currently Amended) A The communication arrangement according to claim 14, wherein the first network unit is located in an aircraft.
- 22. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 21, it comprising a fourth circuit configured to receive flight status information from the aircraft for controlling the first network unit.
- 23. (Currently Amended)—A— The communication arrangement according to claim 22, wherein the circuit is further configured to bar communications between the first network unit and mobile stations inside the aircraft on the basis of the received flight status information and keep the mobile stations camped to the first network unit during the barred state.
- 24. (Currently Amended) A— The communication arrangement according to claim 22, wherein the flight status information comprises at least one of the following information: flight altitude, position and heading, doors open/closed, activate/deactivate mobile communications.
- 25. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 14, further comprising:
- a fourth circuit configured to receive communication information on another satellite and another second network unit[[,]];

a fifth circuit configured to establish communications between the first network unit and the other second network unit via the other satellite on the basis of the received communication information[[,]]; and

a sixth circuit configured to release the communication information between the first network unit and the second network unit via the satellite.

26. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 14, wherein the information transfer is compliant with at least one of the following communication specifications: GSM (Global System for Mobile communications), PCN (Personal Communication Network), PCS (Personal Communication System), HSCSD (High Speed Circuit Switched Data), GPRS (General Packet Radio Service), EDGE (Enhanced Data rates for GSM Evolution), CDMA (Code Division Multiple Access), WCDMA (Wide band CDMA), Bluetooth, UMTS (Universal Mobile Telecommunications System), Teldesic, Iridium, Inmarsat and WLAN (Wireless Local Area Network).

27. (Currently Amended)—A— <u>The</u> communication arrangement according to claim 14, wherein the first network unit is a base transceiver station and the second network unit is a base station controller.

28. (Currently Amended) A The communication arrangement according to claim 14, wherein the first network unit is inside a vehicle and connected to a wireless network including mobile terminals inside the vehicle.

29. (Currently Amended) A first network unit comprising:

a first circuit configured to communicate <u>an</u> information <u>transfer</u> with a second network unit via a satellite[[,]]; and

a second circuit configured to emulate, without the communication information transfer between the first network unit and the second network unit, signalling of the second network unit to the first network unit during periods when there is no communication information transfer via the satellite between the first network unit and the second network unit.

- 30. (Currently Amended)—— <u>The</u> first network unit according to claim 29, that wherein said signalling is LAPD link and Abis signalling.
- 31. (Currently Amended)—A— The first network unit according to claim 29, that wherein the first network unit is a base transceiver station and the second network unit is a base station controller.
- 32. (Currently Amended)—A— The first network unit according to claim 30, wherein said circuit configured to emulate signalling is configured to reserve capacity dynamically for an Abis link during an on-state of a satellite connection, the capacity being reserved based on a requirement for the information transfer between the first network unit and the second network unit.
- 33. (Currently Amended) A The first network unit according to claim 29, embodied in a moving vehicle.
- 34. (Currently Amended)—A— <u>The</u> first network unit according to claim 33, comprising: a third circuit configured to receive communication information on another satellite and

another second network unit[[,]];

a fourth circuit configured to establish communications between the first network unit and the another second network unit via the another satellite on the basis of the received communication information[[,]]; and

a fifth circuit configured to release <u>the</u> communication <u>information</u> between the first network unit and the second network unit via the satellite.

- 35. (Currently Amended)—A— The first network unit according to claim 33, wherein the moving vehicle is an aircraft that and the first network unit further comprises a circuit configured to receive flight status information from the aircraft in order to control the first network unit.
- 36. (Currently Amended)—A— The first network unit according to claim 35, further comprising a circuit configured to bar communications between the first network unit and mobile stations inside the aircraft on the basis of the received flight status information; and keep mobile stations camped to the first network unit during the barred state.
- 37. (Currently Amended)—A— The first network unit according to claim 35, in that wherein the flight status information comprises at least one of flight altitude, position and heading, doors open/closed, activate/deactivate mobile communications.
- 38. (Currently Amended)—A—The first network unit according to claim 29, wherein the first network unit is a base transceiver station controller capable of communicating with a base transceiver station controller via the satellite.
- 39. (Currently Amended) A communication arrangement comprising:

a first network unit for wireless communication with mobile stations inside a vehicle[[,]]_;

a second network unit of a terrestrial mobile communication system, the terrestrial mobile communication system comprising means for communicating between the first network unit and the second network unit via a satellite[[,]];

means for establishing a satellite connection as a response to a situation in which <u>an</u> information transfer between the first network unit and the second network unit is required[[,]];

means for releasing the satellite connection as a response to a situation in which the information transfer between the first network unit and the second network unit is not required[[,]];

means for emulating, without communication the information transfer between the first network unit and the second network unit, signalling of the second network unit to the first network unit during a released state of the satellite connection[[,]]; and

means for emulating, without communication the information transfer between the first network unit and the second network unit, signalling of the first network unit for the second network unit during the released state of the satellite connection.

40. (Currently Amended) A computer readable medium storing a computer program, executable by a processor to perform actions comprising:

establishing a satellite connection via a satellite when <u>an</u> information transfer between a first network unit and a second network unit is required[[,]]:

releasing to a released state the satellite connection when the information transfer between the first network unit and the second network unit is not required[[,]]; and

emulating, without the information transfer between the first network unit and the second network unit, signalling of the second network unit to the first network unit during the released state of the satellite connection.

41. (Currently Amended) An apparatus, comprising:

a transceiver configured to establish a satellite connection via a satellite when information transfer between a first network unit and a second network unit is required[[,]];

the transceiver configured to release to a released state the satellite connection when the information transfer between the first network unit and the second network unit is not required[[,]]; and

an emulator coupled to the transceiver configured to emulate, without the information transfer between the first network unit and the second network unit, signalling of the second network unit to the first network unit during the released state of the satellite connection.

- 42. (Previously Presented) The apparatus of claim 41, wherein said signalling is LAPD link and Abis signalling.
- 43. (Previously Presented) The apparatus of claim 41, wherein said emulating signalling of the second network unit includes transferring state messages with the first network unit.

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44. (Previously Presented) The apparatus according to claim 41, wherein said signalling is LAPD link and Abis signalling.

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- 45. (Previously Presented) The apparatus according to claim 41, wherein said emulating signalling of the second network unit comprises transferring state messages with the first network unit.
- 46. (Previously Presented) The apparatus of claim 41, wherein capacity is reserved dynamically for an Abis link during an on-state of the satellite connection, the capacity being reserved based on a data transfer requirement.

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Reasons for Allowance

- 2. The following is an examiner's statement of reasons for allowance:
- 3. The primary reason for allowance of the claims is the inclusion of the elements of "emulating (Figure 1b, element 114), without the information transfer between the first network unit (Figures 1a, 1b, element 104) and the second network unit (Figure 1a, 1c, element 120), signalling of the second network unit to the first network unit during the released state of the satellite connection" in independent claims 1, 14, 39, 40, 41; of "a second circuit (Figure 1b, element 114) configured to emulate, without the information transfer between the first network unit (Figures 1a, 1b, element 104) and the second unit (Figure 1a, 1c, element 120), signaling of the second network unit to the first network unit during periods when there is no the information transfer via satellite (Figures 1a, 1b, element 140) between the first network unit and the second network unit" in independent claim 29, and of Applicant's remarks on pages 19-22 received on 07 July 2008.
- 4. The prior art is also silent of the elements above as explained below:

Usher et al. US patent # 7,406,309 B2 only discloses in Figures 1, 2, 6, 7 that, "The integration of the onboard MSC 16 with the onboard switching capability associated with the conventional satellite telephone system and the aircraft's internal communication 15 provides a simple means of providing passengers and crew with a

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"Wireless PBX" facility, as users on board the aircraft can communicate with each other through the BCS 14 without using the satellite link 3-6-13" (col. 6, lines 47-63) and "When a call attempt is made (step 701), The MSC in the home network 7 to which the call is initially routed obtains from the HLR 71 the current location of the mobile telephone (step 702), and on receiving the identity of the host MSC 41, directs the call there (step 703). The host MSC in turn attempts to transmit the call attempt to the current serving base station, which is in fact the interface unit 46 (step 704). If the disconnection procedure (to be described later with reference to Figure 7) has been carried out, the call will fail (step 705) and a signal is transmitted back to the home MSC 71. Otherwise, the interface unit 46 automatically returns a "busy" signal to any such request (step 706). Note that the interface unit 46 has no information regarding the true operating state of the mobile unit 10. It is merely arranged to emulate the target mobile unit's response to a call attempt when the target mobile unit is in the "busy" condition" (col. 10, lines 10-29).

Tamor US 2003/0004032 A1 only disclose in Figure 1 that, "an emulation system and control strategy comprising: a source of power comprising an internal combustion engine (ICE) and an electric traction drive motor/generator (motor); a vehicle system control (VSC); a controller within the VSC including a drive force control device for the ICE, whereby engine torque and engine on/off state are controlled; the powertrain source being operatively connected to the input of an electrified converterless transmission (ECLT); a power transfer device connected to the output of the ECLT; and a disconnect clutch in the powertrain between the ICE and the motor. When the vehicle

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engine is off and disconnected from the powertrain, the drive motor is operated in a manner that emulates the behavior of the internal combustion engine, whereby the motor will react just as the ICE would have reacted when subject to comparable inputs, ([0021])".

- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Claims 1-3, 5-46 that are renumbered as 1-45 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HAI V. NGUYEN whose telephone number is (571)272-3901. The examiner can normally be reached on 6:00-3:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc M. Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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